



DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DISTRICT, LOUISVILLE
CORPS OF ENGINEERS
P.O. BOX 489
NEWBURGH, INDIANA 47629-0489

REPLY TO
ATTENTION OF:

May 15, 2013

Regulatory Branch
ID No. LRL-2013-424-rjb

(b) [REDACTED] Pork, Inc.

Attn: (b) (6) [REDACTED]
[REDACTED]
[REDACTED]

Dear (b) (6) [REDACTED]

We have reviewed the information provided regarding (b) [REDACTED] Pork, Inc. request for after the fact permitting of a diversion structure to move water from the unnamed tributary of Henry Creek to a clean water pond. This diversion structure is a component of the agriculture facility and operations. The structure is located in the unnamed tributary located approximately 1.25 miles NE of Sigel in Shelby County, Illinois. This project includes the minor discharge of poured concrete to attach the diversion when applicable. The information supplied by you was reviewed to determine whether a Department of the Army (DA) permit will be required under the provisions of Section 404 of the Clean Water Act.

The Corps of Engineers has determined that this activity is authorized under Section 404 of the Clean Water Act and Section 10 of the Rivers and Harbors Act, by an existing Department of the Army nationwide permit No. 18 for *Minor Discharges*, as described in the February 21, 2012, Federal Register, Reissuance of Nationwide Permits; Notice (77 FR 10271), Appendix A (B)(12). Enclosed is a copy of the nationwide permit and conditions and management practices with which you must comply. This decision is valid until March 18, 2017. This determination is applicable only to the permit program administered by the Corps of Engineers. It does not eliminate the need to obtain other federal, state or local approvals before beginning work. This permit verification does not convey property rights, nor authorize any injury to property or invasion of other rights.

The Illinois Environmental Protection Agency Division of Water Pollution Control (IEPA/WPC) has denied general Section 401 Water Quality Certification for this nationwide permit. **You must also obtain an individual State 401 Water Quality Certification (WQC)** or waiver from the Illinois Environmental Protection Agency (ILEPA). You *must* contact them directly at the following address:

LRL-2013-0424

Illinois Environmental Protection Agency

Permits Section

1020 North Grand Avenue East

P.O. Box 19276

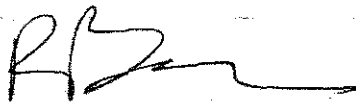
Springfield, Illinois 62794-9676

Once you have obtained your 401 State water quality certification or a waiver, you may proceed without further contact or verification from us.

You are reminded that the permit is based on submitted plans. Variations from these plans shall constitute a violation of Federal law and may result in the revocation of the permit. If this nationwide permit is modified, reissued, or revoked during this period, the provisions described at 33 CFR 330.6(b) will apply. The enclosed Compliance Certification should be signed and returned when the project is completed. If your project is not completed by this date or if your project is modified, you must contact us for another permit determination in accordance with the rules and regulations in effect at that time. Note that we also perform periodic inspections to ensure compliance with our permit conditions and applicable Federal laws. A copy of this letter is being sent to your agent and to the ILEPA.

If you have any questions, please contact Robert Brown at (812) 853-7632. Please refer to file number **LRL-2013-0424-rjb**.

Sincerely,

A handwritten signature in black ink, appearing to be 'RJB' followed by a stylized flourish.

Robert J. Brown
Regulatory Project Manager
Regulatory Branch West

LRL-2013-0424

Compliance Certification:

Permit Number: LRL-2013-0424-rjb

Name of Permittee: (b) (6) Pork, Inc.

Attn: (b) (6)

Date of Issuance: May 15, 2013

Upon completion of the activity authorized by this permit and any mitigation required by this permit, sign this certification and return it to the following address:

U.S. Army Corps of Engineers
CELRL-OP-FW
P.O. Box 489
Newburgh, IN 47629

Please note that your permitted activity is subject to a compliance inspection by an U.S. Army Corps of Engineers representative. If you fail to comply with this permit you are subject to permit suspension, modification, or revocation.

I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and conditions of the said permit, and required mitigation was completed in accordance with the permit conditions.

Signature of Permittee

Date

JOINT APPLICATION FORM FOR ILLINOIS

ITEMS 1 AND 2 FOR AGENCY USE

1. Application Number	2. Date Received
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3. and 4. (SEE SPECIAL INSTRUCTIONS) NAME, MAILING ADDRESS AND TELEPHONE NUMBERS

3a. Applicant's Name: (b) (6) Company Name (if any): [Redacted] Pork, Inc. Address: (b) (6) (b) (6) Email Address: jswine02@yahoo.com	3b. Co-Applicant/Property Owner Name (if needed or if different from applicant): Company Name (if any): Address: Email Address:	4. Authorized Agent (an agent is not required): Alan Kollmann Company Name (if any): Effingham Equity Address: 201 W. Roadway Ave Effingham, IL 62401 Email Address: akollmann@effinghamequity.com
Applicant's Phone Nos. w/area code Business: (b) (6) Residence: (b) (6) Cell: (b) (6) Fax: (b) (6)	Applicant's Phone Nos. w/area code Business: Residence: Cell: Fax:	Agent's Phone Nos. w/area code Business: 217-342-4101 Residence: (b) (6) Cell: (b) (6) Fax: 217-347-7601

STATEMENT OF AUTHORIZATION

I hereby authorize, _____ to act in my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this permit application.

Applicant's Signature

Date

5. ADJOINING PROPERTY OWNERS (Upstream and Downstream of the water body and within Visual Reach of Project)

Name	Mailing Address	Phone No. w/area code
a. (b) (6)	same as above	(b) (6)
b.		
c.		
d.		

6. PROJECT TITLE:

Concrete water diversion structure

PROJECT LOCATION:

[Redacted] Farmstead north of Sigel, Illinois

LATITUDE: [Redacted] °N LONGITUDE: [Redacted] °W	UTM's Northing: Easting:										
STREET, ROAD, OR OTHER DESCRIPTIVE LOCATION	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 15%;">LEGAL DESCRIPTION</th> <th style="width: 15%;">QUARTER</th> <th style="width: 15%;">SECTION</th> <th style="width: 15%;">TOWNSHIP NO.</th> <th style="width: 15%;">RANGE</th> </tr> <tr> <td></td> <td>[Redacted]</td> <td>[Redacted]</td> <td>[Redacted]</td> <td>[Redacted]</td> </tr> </table>	LEGAL DESCRIPTION	QUARTER	SECTION	TOWNSHIP NO.	RANGE		[Redacted]	[Redacted]	[Redacted]	[Redacted]
LEGAL DESCRIPTION	QUARTER	SECTION	TOWNSHIP NO.	RANGE							
	[Redacted]	[Redacted]	[Redacted]	[Redacted]							
<input type="checkbox"/> IN OR <input checked="" type="checkbox"/> NEAR CITY OF TOWN (check appropriate box) Municipality Name Sigel	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 75%;">WATERWAY</th> <th style="width: 25%;">RIVER MILE (if applicable)</th> </tr> <tr> <td>unnamed tributary to perennial Henry Creek</td> <td>N/A</td> </tr> </table>	WATERWAY	RIVER MILE (if applicable)	unnamed tributary to perennial Henry Creek	N/A						
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unnamed tributary to perennial Henry Creek	N/A										
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 33%;">COUNTY</th> <th style="width: 33%;">STATE</th> <th style="width: 33%;">ZIP CODE</th> </tr> <tr> <td>Shelby</td> <td>IL</td> <td>62462</td> </tr> </table>	COUNTY	STATE	ZIP CODE	Shelby	IL	62462					
COUNTY	STATE	ZIP CODE									
Shelby	IL	62462									

Revised 2010

☐ Corps of Engineers

☐ IL Dep't of Natural Resources

☐ IL Environmental Protection Agency

☐ Applicant's Copy Agency

8. PROJECT DESCRIPTION (Include all features):

Structure has an 8" thick floor that is 14' long and 5' wide. The floor has 1/2 rebar crisscrossed every 18". Also the floor has a rat barrier along the whole perimeter.
The walls of the structure are 8" thick x 5' long x 4' high. There are two exterior wall, they have 1/2 rebar every 1' that is crisscrossed.
The center wall of the structure is 8" thick x 4' long x 4' high this is a brace wall for the structure. The brace wall is placed at the center of the structure. To divert clean water to the pond the producer insert boards to divert the water, at the same time inserts plastic along with the board for a more water tight seal .

9. PURPOSE AND NEED OF PROJECT:

To divert clean water out of a storm water ditch that runs through the property into a clean water pond that waters livestock of the operation.

COMPLETE THE FOLLOWING FOUR BLOCKS IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED

10. REASON(S) FOR DISCHARGE:

During the construction of the clean water diversion fill material was transported off of the site. The fill material was soil that was tampered with at the time of construction of the diversion.

11. TYPE(S) OF MATERIAL BEING DISCHARGED AND THE AMOUNT OF EACH TYPE IN CUBIC YARDS FOR WATERWAYS:

TYPE: Fill material
AMOUNT IN CUBIC YARDS:
Unknown

12. SURFACE AREA IN ACRES OF WETLANDS OR OTHER WATERS FILLED (See Instructions)

N/A

13. DESCRIPTION OF AVOIDANCE, MINIMIZATION AND COMPENSATION (See instructions)

14. Date activity is proposed to commence

Date activity is expected to be completed
Project is completed

15. Is any portion of the activity for which authorization is sought now complete? Yes ☒ No ☐
Month and Year the activity was completed July 2012

NOTE: If answer is "YES" give reasons in the Project Description and Remarks section.
Indicate the existing work on drawings.

16. List all approvals or certification and denials received from other Federal, interstate, state, or local agencies for structures, construction, discharges or other activities described in this application.

Issuing Agency	Type of Approval	Identification No.	Date of Application	Date of Approval	Date of Denial
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17. CONSENT TO ENTER PROPERTY LISTED IN PART 7 ABOVE IS HEREBY GRANTED.

Yes No

18. APPLICATION VERIFICATION (SEE SPECIAL INSTRUCTIONS)

Application is hereby made for the activities described herein. I certify that I am familiar with the information contained in the application, and that to the best of my knowledge and belief, such information is true, complete, and accurate. I further certify that I possess the authority to undertake the proposed activities.

Signature of Applicant or Authorized Agent

Date

Signature of Applicant or Authorized Agent

Date

Signature of Applicant or Authorized Agent

Date

☐ Corps of Engineers Revised 2010 ☐ IL Dep't of Natural Resources ☐ IL Environmental Protection Agency ☐ Applicant's Copy

SEE INSTRUCTIONS FOR ADDRESS

LOCATION MAP

Attached

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☐ Corps of Engineers

☐ IL Dep't of Natural Resources

☐ IL Environmental Protection
Agency

☐ Applicant's Copy

PLAN VIEW

FOR AGENCY USE ONLY

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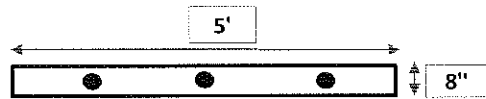
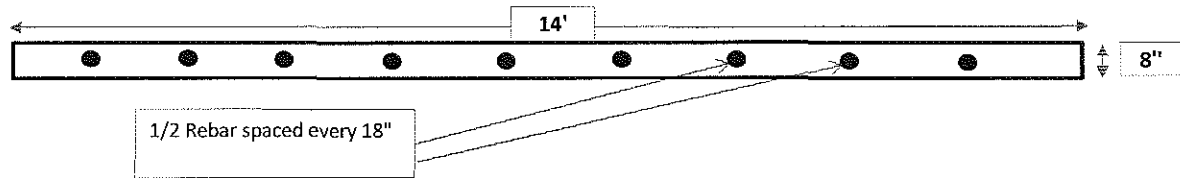
☐ Corps of Engineers

☐ IL Dep't of Natural Resources

☐ IL Environmental Protection
Agency

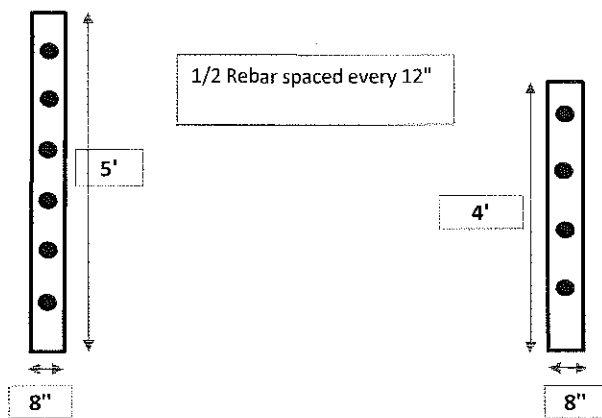
☐ Applicant's Copy

Structure Wall Cross section Long ways

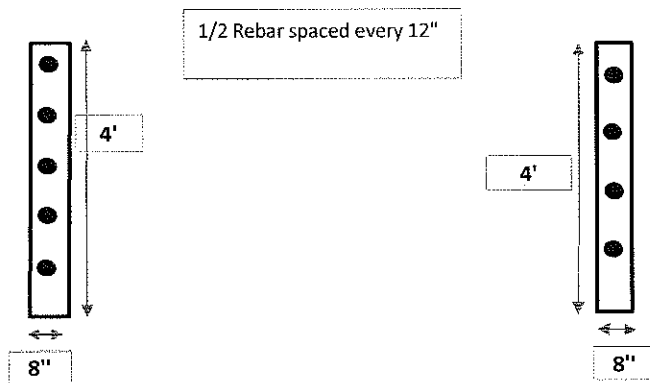


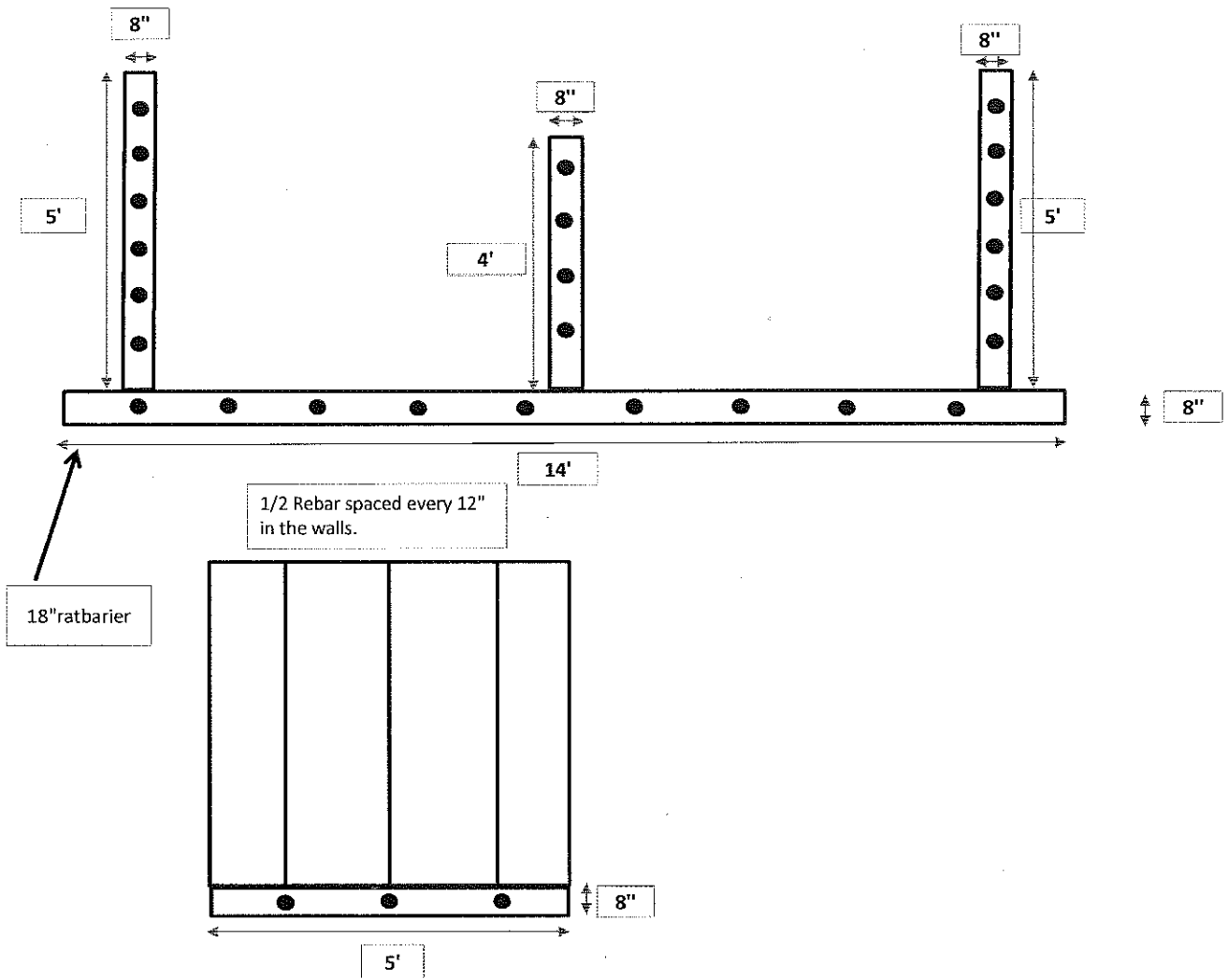
Structure Floor Cross section Width view

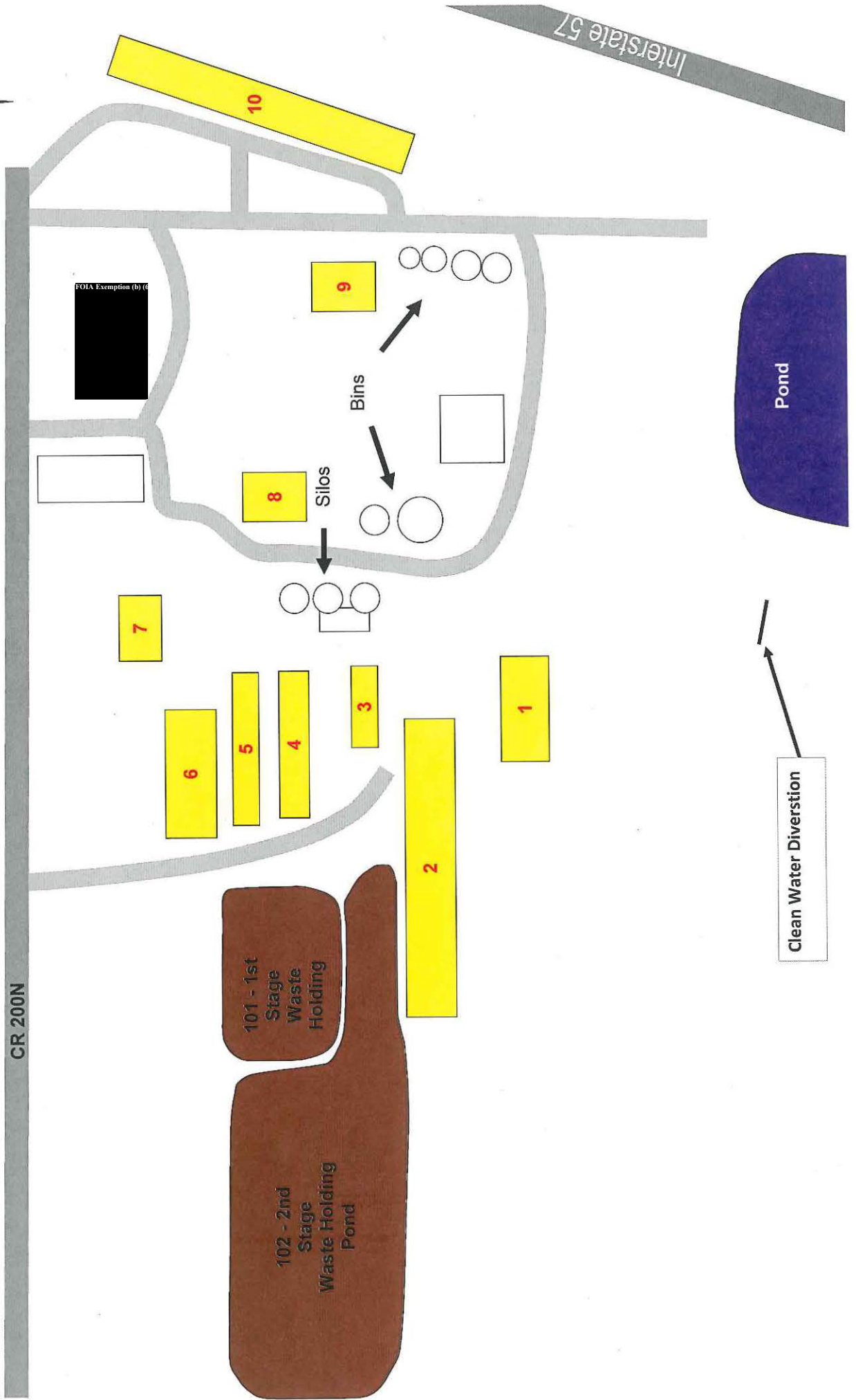
Structure Outside Walls Cross Section

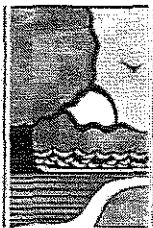


Structure Inside Walls Cross Section









Illinois Department of Natural Resources

One Natural Resources Way Springfield, Illinois 62702-1271
<http://dnr.state.il.us>

Pat Quinn, Governor
Marc Miller, Director

June 19, 2013

PERMIT NOT REQUIRED NOTIFICATION LETTER

(b) [REDACTED] Pork, Inc. (b) (6) [REDACTED]
Channel Diversion, Tributary to Henry Creek

Thank you for the recent submittal regarding the project as shown on the enclosed copy of your submittal. Based on our review of the information you provided and in accordance with the Rivers, Lakes and Streams Act [615 ILCS 5], a Department of Natural Resources, Office of Water Resources permit will not be required for this work because:

- ☒ The Department does not have jurisdiction over streams with drainage areas of less than one square mile in an urban area, or ten square miles in a rural area. The site of your work is located where the drainage area is below these jurisdictional limits.
- ☐ The Department does not have regulatory authority over activities outside the floodway of jurisdictional streams. The floodway is the portion of the floodplain that must remain open and unrestricted to carry flood flows. While the construction site is located outside the floodway, it appears to be located in the floodplain. The work may, therefore, be subject to flood risk.
- ☐ The Department does not have jurisdiction over construction on non-public lakes in which the project would not impact the dam, traverse the lake or impact the flood carrying capacity of the stream(s) that feed the lake.
- ☒ The Department does not require permits for Class III (low hazard) dams which meet **all** of the following criteria: a dam height of less than 25 feet; an impounding capacity of dam of less than 50 acre-feet (calculated at the top of dam); and a drainage area of less than ten square miles in a rural area, or one square mile in an urban area. If modifications are proposed to the dam, this office should be contacted for a determination of permit applicability prior to initiation of construction. Also, future changes in downstream land use could change the hazard classification making a permit and dam modification necessary.
- ☐ The proposed activity is considered routine maintenance or repair work and is exempt from the Department's permit requirements.

If you have any questions or comments concerning the above determination, please feel free to contact the person noted below at 217/782-3863. This letter is not to be construed as a release from any other federal, state or local laws or regulations. If the project involves work in a wetland or in a floodplain and if you have not already done so, you should contact the U. S. Army Corps of Engineers and the local regulatory authority to ascertain applicable federal and local requirements.

☐ Mark McCauley
☐ Rob Giesing
☒ Jerry Bishoff

☐ Mike Diedrichsen
☐ Jason Campbell

BY: _____

cc:

Effingham Equity (Alan Kollman)

JOINT APPLICATION FORM FOR ILLINOIS

ITEMS 1 AND 2 FOR AGENCY USE

1. Application Number <div style="font-size: 1.5em; margin-top: 10px;">20133056</div>	2. Date Received <div style="font-size: 1.5em; margin-top: 10px;">JUNE 19, 2013</div>
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3. and 4. (SEE SPECIAL INSTRUCTIONS) NAME, MAILING ADDRESS AND TELEPHONE NUMBERS		
3a. Applicant's Name: (b) (6) Company Name (if any): (b) (6) Pork, Inc. Address: (b) (6) (b) (6) Email Address: jswine02@yahoo.com	3b. Co-Applicant/Property Owner Name (if needed or if different from applicant): Company Name (if any): Address: Email Address:	4. Authorized Agent (an agent is not required): Alan Kollmann Company Name (if any): Effingham Equity Address: 201 W. Roadway Ave Effingham, IL 62401 Email Address: akollmann@effinghamequity.com
Applicant's Phone Nos. w/area code Business: (b) (6) Residence: (b) (6) Cell: (b) (6) Fax: (b) (6)	Applicant's Phone Nos. w/area code Business: Residence: Cell: Fax:	Agent's Phone Nos. w/area code Business: 217-342-4101 Residence: (b) (6) Cell: (b) (6) Fax: (b) (6)

STATEMENT OF AUTHORIZATION

I hereby authorize, _____ to act in my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this permit application.

Applicant's Signature

Date

5. ADJOINING PROPERTY OWNERS (Upstream and Downstream of the water body and within Visual Reach of Project)		
Name a. (b) (6) b. c. d.	Mailing Address same as above <div style="text-align: center; margin-top: 20px;"> RECEIVED OFFICE OF WATER RESOURCES SPRINGFIELD, ILLINOIS JUN 19 2013 AS _____ DIR _____ PGMD _____ PI _____ PLNG _____ RM _____ </div>	Phone No. w/area code (b) (6)

6. PROJECT TITLE: Concrete water diversion structure

7. PROJECT LOCATION: Farmstead north of Sigel, Illinois					
LATITUDE: _____ °N LONGITUDE: _____ °W	UTMs Northing: Easting:				
STREET, ROAD, OR OTHER DESCRIPTIVE LOCATION	LEGAL DESCRIP	QUARTER	SECTION	TOWNSHIP NO.	RANGE
<input type="checkbox"/> IN OR <input checked="" type="checkbox"/> NEAR CITY OF TOWN (check appropriate box) Municipality Name Sigel		WATERWAY unnamed tributary to perennial Henry Creek			RIVER MILE (if applicable) N/A
COUNTY Shelby	STATE IL	ZIP CODE 62462			

Revised 2010

☐ Corps of Engineers

☒ IL Dep't of Natural Resources

☐ IL Environmental Protection Agency

☐ Applicant's Copy

8. PROJECT DESCRIPTION (Include all features)

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9. PURPOSE AND NEED OF PROJECT:

To divert clean water out of a storm water ditch that runs through the property into a clean water pond that waters livestock of the operation.

COMPLETE THE FOLLOWING FOUR BLOCKS IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED

10. REASON(S) FOR DISCHARGE:

During the construction of the clean water diversion fill material was transported off of the site. The fill material was soil that was tampered with at the time of construction of the diversion.

11. TYPE(S) OF MATERIAL BEING DISCHARGED AND THE AMOUNT OF EACH TYPE IN CUBIC YARDS FOR WATERWAYS:

TYPE: Fill material
AMOUNT IN CUBIC YARDS:
Unknown

12. SURFACE AREA IN ACRES OF WETLANDS OR OTHER WATERS FILLED (See Instructions)

N/A

13. DESCRIPTION OF AVOIDANCE, MINIMIZATION AND COMPENSATION (See instructions)

14. Date activity is proposed to commence
September 2012

Date activity is expected to be completed
Project is completed

15. Is any portion of the activity for which authorization is sought now complete?
Month and Year the activity was completed July 2012

Yes ☒ No ☐

NOTE: If answer is "YES" give reasons in the Project Description and Remarks section.
Indicate the existing work on drawings.

16. List all approvals or certification and denials received from other Federal, interstate, state, or local agencies for structures, construction, discharges or other activities described in this application.

Issuing Agency

Type of Approval

Identification No.

Date of Application

Date of Approval

Date of Denial

17. CONSENT TO ENTER PROPERTY LISTED IN PART 7 ABOVE IS HEREBY GRANTED.

Yes

No

18. APPLICATION VERIFICATION (SEE SPECIAL INSTRUCTIONS)

Application is hereby made for the activities described herein. I certify that I am familiar with the information contained in the application, and that to the best of my knowledge and belief, such information is true, complete, and accurate. I further certify that I possess the authority to undertake the proposed activities.

Signature of Applicant or Authorized Agent

Date

Signature of Applicant or Authorized Agent

Date

Signature of Applicant or Authorized Agent

Date

☐ Corps of Engineers
Revised 2010

☐ IL Dep't of Natural Resources

☐ IL Environmental Protection
Agency

☐ Applicant's Copy

SEE INSTRUCTIONS FOR ADDRESS

Water Division Director
U.S. Environmental Protection Agency, Region 5
Attention: Joan Rogers
Water Enforcement Compliance Branch (WC-15J)
77 West Jackson Boulevard
Chicago, IL 60604-3590

December 12, 2013

RE: Docket No. V-W-13-AO-09

Dear Ms. Rogers

Pursuant to your mailing dated April 12, 2013 & August 27, 2013 received by us. We are providing the following in order to show that we are complying with the Administrative Order.

1. The following details how (b) [REDACTED] has corrected or intends to correct Concerns from the follow-up Inspection.
 - a. (b) [REDACTED] will or has implemented these measures to discontinue unauthorized discharges.
 - i. Additional measures were needed to contain the manure and the wastewater from the compost pile. As an interim basis there has been a temporary berm around the perimeter of the compost pile to eliminate any potential for runoff from the site. In order to correct this issue we are working with our local NRCS office for cost share measures to install a permanent covered compost structure for our facility to use and operate.
 1. **It has been determined that we will for-go the NRCS dollars and construct a permanent composter to the south of the facility on our own. This will eliminate the composter that is currently used. This construction will be started in April of 2014.**
 - ii. It was stated that there was wastewater flowing from the receiving pen on the east side of the Finisher #2. Since the inspection all use of this part of the facility has been discontinued. We will only use this area when animals will be loaded out or received in. The pipe where the wastewater previously flowed into near this area has been capped off and no longer available for use, thus eliminating the previous circumstances that may have led to a discharge.
 1. **The area that was in question here has been capped off and all runoff from this area has been contained.**

- iii. All areas of the farm have been either capped or bermed to prevent any runoff to the unnamed stream from the pipe that was identified as a storm water pipe.
- iv. A nutrient management plan is developed and maintained yearly for our operation. As fields are applied to records are completed and placed in the plan. Along with any inventory change in animals. The nutrient management plan is on file at our facility, along with being maintained and on file at Effingham Equity in Effingham, IL.
- v. Engineer Design Fees and Consultation Work -- [FOIA Exemption (b)]
 - Construction of Berms -- [FOIA Exemption (b)]
 - Cap Drains -- [FOIA Exempt]
 - Estimated Cost for Composter -- [FOIA Exemption (b) (6)]
 - Seeding and Back fill --- [FOIA Exemption (b)]

NPDES Permit – Based on the information provided above, it is our belief that since based on the 5th Circuit decision that a CAFO that has had a past discharge is not required to seek coverage under an NPDES permit if the Agency determines that the conditions that gave rise to the discharge have been corrected and that the design construction, operation or maintenance of the CAFO has been modified in such a way as to prevent discharges from occurring in the future. We believe that we do, in fact, meet this requirement.

If you have any further questions or comments please feel free to notify me via US Mail or telephone.

(b) (6)

Cc

Alan Kollmann – Effingham Equity

(b) (6)

Annual NPDES Report

Special Condition 7

Part A Number of Animals on this site.

i.	<u>Number</u>	<u>Type</u>	<u>Housing</u>
Barn 1	693	Swine - Finishing	under roof
Barn 2	2146	Swine - Finishing	under roof
Barn 3	264	Swine - Finishing	under roof
Barn 4	672	Swine - Finishing	under roof
Barn 5	588	Swine - Finishing	under roof
Barn 6	1024	Swine - Finishing	under roof
Barn 7	420	Swine - Finishing	under roof
Barn 8	450	Swine - Finishing	under roof
Barn 9	350	Swine - Finishing	under roof
Barn 10	4000	Swine - Finishing	under roof

ii. Total quantity of livestock waste generated in previous calendar year.

Gallons 4.926 Million Gallons.

iii. Quantity of livestock waste transferred to another person by the facility location.

iv. Total number of acres for land application

383.1 Acres

v. Total number of acres under control of the livestock management facility that were used for land application

1415.59 acres

vi. Summary of all livestock waste discharges from the facility.

There were no waste discharges from the facility in calendar year 2013

vii. Statement indicating whether the current version of the livestock management facility Nutrient Management Plan was developed by a cnmplanner.
Our CNMP was written by Alan Kollmann of Effingham Equity in Effingham, Illinois his credentials are TSP-B - 04-531

viii. Each field that received livestock waste in the prior calendar year.

a. The crop planted and actual yield of the field.

Field 10 -- 5 Acres

Field 8 A&B -- 19.2Acres

Field 64-66 -- 48.7 Acres

Field 46 -- 35.00 Acres

Field 32 -- 32.1 Acres Corn Grain harvested in the fall

Field 33-- 49.1 Acres Corn Grain harvested in the fall

Field 34 -- 56.6 Acres Corn Grain harvested in the fall

Field 35 -- 19.6 Acres Corn Grain harvested in the fall

Field 36 -- 19.6 Acres Corn Grain harvested in the fall

Field 37 -- 48.5 Acres Corn Grain harvested in the fall

Corn Grain average yield was 173 bu per acre

b. Actual manure analysis.

attached

c. Manure applied in tons or gallons per acre

Manure applied at 13,000 gal per acres results in 20.75 lbs of N, 15.2 lbs of P_2O_5 , 17 lbs of K_2O -- Spring of 2013

Manure applied at 13,000 gal per acres results in 11.9 lbs of N, 9.27 lbs of P_2O_5 , 19.27 lbs of K_2O -- Fall of 2013

d. Calculations of application rate of plant available Nitrogen in lbs/ac and Phosphorus in pounds per acre.
see Section "C"

e. results of all soil test conducted in calendar year for P & N for each field used for waste application.

The operation takes soil test every 4 years as need process and work very closely with our agronomist.

- f. The amounts of supplemental fertilizer in pound per acre applied to each field used for Livestock waste application each of the two previous years.
The operation applies 30 units of N to wheat in the spring and 100 units of N to Corn in the summer.
The operation has maintained these fields in the same rotation for the last two years (Wheat, Corn)

The amount of livestock waste land applied in dry tons or gallons to each field in each of the previous two calendar years.

2012 --- 13,000 gal per acre of liquid manure.

2013 --- 13,000 gal per acre of liquid manure.

- h. topographic map showing the locations of the fields where waste was land appled.

Attached

- i. crop yields from the fields with crops harvested in the previous calendar year that had livestock was applied for that crop
Corn Grain -- 173 bu per acre

- j. Permittee shall submit a revised NMP that requires modification pursuant to Special Condition 16 or other wise.

If none were made in the previous year you must identify such in report.

No modifications were needed to be made to the Nutrient management plan.

Sincerely

(b) (6)



Spring



SEND TO: EFFINGHAM EQUITY
P.O. BOX 488
EFFINGHAM, IL 62401

PRODUCER: (b) [REDACTED] PORK

ORDER #: 280843

MANURE ANALYSIS

SAMPLE ID: NURSERY COBBLERS KNOB

LAB #: 25203
NUTRIENT lbs/1000 gal

TKN 29.3

NH4-N 20.7

P2O5 15.2

K2O 17.0

%TS 2.24

% H2O 97.76

TKN is the total nitrogen in the sample. NH4-N is ammonia nitrogen, at application it is 100% available.

TKN minus NH4-N is organic nitrogen, it is 20% available the first year. The plant available nitrogen equals $(0.2 \times \text{organic nitrogen}) + \text{NH4-N}$. Example TKN = 50, NH4-N = 18, then Org-N = $50 - 18 = 32$. Therefore, plant available nitrogen = $(.2 \times 32) + 18 = 24.4$.

P2O5 (Phosphate) and K2O (Potash) are usually 90% available the first year.

DATE: 04-2-2013

SIGNED: Marina Pantu

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Member of the SGS Group

Fall



MANURE ANALYSIS REPORT

Report For: (b) (6)
Submitted By: Mark Tarter
Effingham Equity_Eff
PO Box 488
Effingham, IL 62401

OrderID: 286501
ClientID: 50005
Farm Name: (b) (6)
Date Completed: 10/18/2013
Animal Type: NA
Storage System: NA

Analysis As: Lbs / 1,000 Gallons

SampleID	Nitrogen		Phosphorus	Potassium	Sodium	Calcium	Magnesium	Copper	Manganese	Iron	Zinc	Sulfur	Boron	% Total	
	TKN	NH4N	P2O5	K2O	Na	Ca	Mg	Cu	Mn	Fe	Zn	S	B	Solid	Water
(b) (6) 1st Stage	23.8	14.7	9.6	20.9										1.93	98.07

VALUE OF MANURE	Estimated First Year Available Nutrients		Value of Equivalent Commercial Fertilizer		Value of Commercial Fertilizer Based on Fertilizer Prices As of 6/1/2012	
	Injected or Incorporated within 3 Lbs / 1,000 Gallons	Surface Applied / Not Incorporated Lbs / 1,000 Gallons	Injected or Incorporated within 3 Dollars / 1,000 Gallons	Surface Applied / Not Incorporated Dollars / 1,000 Gallons	Dollars / Lb	
Nitrogen	13.95	11.75	\$6.70	\$5.64	Nitrogen (Urea) \$0.48	
Phosphorus	7.67	7.67	\$4.25	\$4.25	P2O5 (Triple Super - TSP) \$0.55	
Potassium	18.77	18.77	\$8.82	\$8.82	K2O (Potash) \$0.47	
TOTAL			\$20.58	\$19.39		

COMMENTS

Application of manure on the same field for 2 consecutive years increases availability of N, P, K, and S by 10%, and 3 or more years by 15%. Availability of N changes depending on the application technique. Injection or incorporation within 3 days of application results in higher N availability. Depending on the storage system, the NH4-N loss can vary 15-20%. Refer to MWPS-18, "Livestock Waste Facilities Handbook" for more information.

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N=11.9
P2O5=9.27
K2O=19.27



MANURE ANALYSIS REPORT

Report For: (b) (6)
Submitted By: Mark Tarter
Effingham Equity_Eff
PO Box 488
Effingham, IL 62401

OrderID: 286501
ClientID: 50005
Farm Name: (b) (6)
Date Completed: 10/18/2013
Animal Type: NA
Storage System: NA
Analysis As: Lbs / 1,000 Gallons

SampleID	Nitrogen		Phosphorus	Potassium	Sodium	Calcium	Magnesium	Copper	Manganese	Iron	Zinc	Sulfur	Boron	% Total	
	TKN	NH4N	P2O5	K2O	Na	Ca	Mg	Cu	Mn	Fe	Zn	S	B	Solid	Water
(b) (6) W_Nursery	20.5	13.4	11.8	16.5										1.70	98.30

VALUE OF MANURE	Estimated First Year Available Nutrients		Value of Equivalent Commercial Fertilizer		Value of Commercial Fertilizer Based on Fertilizer Prices As of 6/1/2012	
	Injected or Incorporated within 3 Lbs / 1,000 Gallons	Surface Applied / Not Incorporated Lbs / 1,000 Gallons	Injected or Incorporated within 3 Dollars / 1,000 Gallons	Surface Applied / Not Incorporated Dollars / 1,000 Gallons	Dollars / Lb.	
Nitrogen	12.72	10.71	\$6.11	\$5.14	Nitrogen (Urea) \$0.48	
Phosphorus	9.42	9.42	\$5.22	\$5.22	P2O5 (Triple Super - TSP) \$0.55	
Potassium	14.86	14.86	\$6.99	\$6.99	K2O (Potash) \$0.47	
TOTAL			\$18.87	\$17.77		

COMMENTS

Application of manure on the same field for 2 consecutive years increases availability of N, P, K, and S by 10%, and 3 or more years by 15%. Availability of N changes depending on the application technique. Injection or incorporation within 3 days of application results in higher N availability. Depending on the storage system, the NH4-N loss can vary 15-20%. Refer to MWPS-18, "Livestock Waste Facilities Handbook" for more information.

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MANURE ANALYSIS REPORT

Report For: (b) (6)
Submitted By: Mark Tarter
Effingham Equity_Eff
PO Box 488
Effingham, IL 62401

OrderID: 286501
ClientID: 50005
Farm Name: (b) (6)
Date Completed: 10/18/2013
Animal Type: Other
Storage System: NA

Analysis As: Lbs / 1,000 Gallons

SampleID	Nitrogen		Phosphorus	Potassium	Sodium	Calcium	Magnesium	Copper	Manganese	Iron	Zinc	Sulfur	Boron	% Total	
	TKN	NH4N	P2O5	K2O	Na	Ca	Mg	Cu	Mn	Fe	Zn	S	B	Solid	Water
(b) (6) Flush Water	17.7	7.8	6.4	20.4										1.68	98.32

VALUE OF MANURE	Estimated First Year Available Nutrients		Value of Equivalent Commercial Fertilizer		Value of Commercial Fertilizer Based on Fertilizer Prices As of 6/1/2012	
	Injected or Incorporated within 3	Surface Applied / Not Incorporated	Injected or Incorporated within 3	Surface Applied / Not Incorporated		
	Lbs / 1,000 Gallons	Lbs / 1,000 Gallons	Dollars / 1,000 Gallons	Dollars / 1,000 Gallons	Dollars / Lb	Dollars / Lb
Nitrogen	10.37	9.20	\$4.98	\$4.42	Nitrogen (Urea)	\$0.48
Phosphorus	5.11	5.11	\$2.83	\$2.83	P2O5 (Triple Super - TSP)	\$0.55
Potassium	18.39	18.39	\$8.64	\$8.64	K2O (Potash)	\$0.47
TOTAL			\$16.32	\$15.68		

COMMENTS

Application of manure on the same field for 2 consecutive years increases availability of N, P, K, and S by 10%, and 3 or more years by 15%. Availability of N changes depending on the application technique. Injection or incorporation within 3 days of application results in higher N availability. Depending on the storage system, the NH4-N loss can vary 15-20%. Refer to MWPS-18, "Livestock Waste Facilities Handbook" for more information.

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EFFINGHAM EQUITY



Topo Map

Prepared For: J & V PROBST, INC.
 Farm: 1 - Home
 Field:
 County: Shelby, IL

Crop Zone:
 Crop Year:
 Prepared By:

